BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : CONSTRUCTION OF RETAINING WALL AND OTHER DEVELOPMENTAL WORKS TO MARRIAGE COMMUNITY HALL BUILDING AT CHIKKABETTAHALLI IN WARD NO.03

MODIFIED ESTIMATE

								Est.Cost.Rs.	**10824190.26**
Sl No	**Description of Item**	**Unit**	**No**	**L**	**B**	**D**	**Qty**	**Rate**	**Amount**
1	KSRB 2-2.5 : Excavation by manual means for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width in Hard Rock not exceeding 1.5 m. in depth including Stacking the excavated stuff from edges of excavation with lead upto 50m including cost of explosives, labour and HOM of equipment complete as per specifications. specification. No. KBS 2.1.d / 2.3.4 / 2.18 / 2.19 (P.No. 5/I.No. 2.7)								
	Compound Wall								
	Retaining Wall								
	NorthernSide	Cum	1	2.5	3.8	5.3	50.35		
	WesternSide	Cum	1	50.9	3.8	5.3	1025.12		
	Southernside	Cum	1	2.5	3.8	5.3	50.35		
	SSM								
	southernside	Cum	1	17	0.6	0.85	8.67		
	Northen side	Cum	1	28.6	0.6	0.85	14.58		
	EasternSide	Cum	1	46.0	0.6	0.85	23.46		
	Deduction								
	Gate	Cum	1	3.50	0.6	0.85	-1.78		
		Cum	1	4.20	0.6	0.85	-2.14		
							1168.61	**606.00**	**708177.66**
2	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No. 12/I.No. 4.2)								
	Compound Wall								
	Retaining Wall								
	NorthernSide	Cum	1	2.5	3.8	0.2	1.9		
	WesternSide	Cum	1	50.9	3.8	0.2	38.68		
	Southernside	Cum	1	2.5	3.8	0.2	1.9		
	SSM Below								
	southernside	Cum	1	17	0.6	0.2	2.04		
	Northen side	Cum	1	28.6	0.6	0.2	3.43		
	EasternSide	Cum	1	46	0.6	0.2	5.52		
	Deduction								
	Gate	Cum	1	3.50	0.6	0.2	-0.42		
		Cum	1	4.20	0.6	0.2	-0.5		
							52.55	**5967.00**	**313565.85**
3	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammerddressed in courses not less than 20 cms high, bond stones at 2m apart in each course including cost of materials, labour, curing completeas per specifications.KBS 5.1.13 Pg No 23 item No 5.6								
	Compound Wall								
	SSM								
	southernside	Cum	1	17	0.45	0.6	4.59		
	Northen side	Cum	1	28.6	0.45	0.6	7.72		
	EasternSide	Cum	1	46	0.45	0.6	12.42		
	Deduction								

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Gate	Cum	1	3.5	0.45	0.6	-0.94		
		Cum	1	4.2	0.45	0.6	-1.13		
							22.66	**4952.00**	**112212.32**
4	KSRB 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.43cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No. 4.5)								
	Compound Wall								
	SSM above								
	southernside	Cum	1	17	0.45	0.15	1.14		
	Northen side	Cum	1	28.6	0.45	0.15	1.93		
	EasternSide	Cum	1	46	0.45	0.15	3.1		
	Deduction								
	Gate	Cum	1	3.5	0.45	0.15	-0.23		
		Cum	1	4.2	0.45	0.15	-0.28		
							5.66	**6554.00**	**37095.64**
5	KSRB 4-1.1: Providing and laying in position plain cement concrete of mix 1:2:4 with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @ 0.459cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2								
	coping concrete arround building	Cum							
	Outside Building	Cum	1	32	27	0.15	129.60		
		Cum	1	19	6.1	0.15	17.39		
		Cum	1	10	3	0.15	4.50		
		Cum	1	20	11	0.15	33.00		
		Cum	1	16	5	0.15	12.00		
			1	20	7	0.15	21.00		
	in front of building outside	Cum	1	46	1.5	0.15	10.35		
	Deduction	Cum							
	tree pit	Cum	1	12.56		0.15	-1.88		
		Cum		(3.14*4*4)/4					
	Electric Yard	Cum	1	4.25	5.2	0.15	-3.32		
	man Holes	Cum	12	0.6	0.6	0.15	-0.65		
	Sump Cover	Cum	2	0.6	0.6	0.15	-0.11		
	steps	Cum	1	0.95	2	0.15	-0.29		
		Cum	2	1.9	1.5	0.15	-0.86		
							220.74	**6165.00**	**1360862.1**
6	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2, Pg No 15, Item No 4.28								
	Compound Wall								
	Retaining Wall								
	NorthernSide								
	Base Concreting	Sqm	2	2.5		0.6	3.00		
		Sqm	2	3.8		0.6	4.56		
	Wall	Sqm	2	2.5		4.5	22.50		
		Sqm	2	0.4		4.5	3.60		
	WesternSide	Sqm							
	Base Concreting	Sqm	2	50.9		0.6	61.08		
		Sqm	2	3.80		0.60	4.56		

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
	Wall	Sqm	2	50.9		4.50	458.10		
		Sqm	2	0.4		4.50	3.60		
	Southernside	Sqm							
	Base Concreting	Sqm	2	2.5		0.6	3.00		
		Sqm	2	3.8		0.6	4.56		
	Wall	Sqm	2	2.5		4.5	22.50		
		Sqm	2	0.4		4.50	3.60		
							594.66	**273.00**	**162342.18**
7	KSRB 4.2.1 : Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS 9103-1999 Reaffirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and First Floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications.KBS 4.1, 4.6, Pg No 13, Item no.4.10								
	Retaining Wall								
	NorthernSide								
	Base Concreting	Cum	1	2.5	3.8	0.6	5.7		
	Wall								
	Rectangular Portion	Cum	1	2.5	0.2	4.5	2.25		
	Triangle Portion	Cum	1	2.5	0.1	4.5	1.12		
	WesternSide								
	Base Concreting	Cum	1	50.9	3.8	0.6	116.05		
	Wall								
	Rectangular Portion	Cum	1	50.9	0.2	4.5	45.81		
	Triangle Portion	Cum	1	50.9	0.1	4.5	22.9		
	Southernside								
	Base Concreting	Cum	1	2.5	3.8	0.6	5.7		
	Wall								
	Rectangular Portion	Cum	1	2.5	0.2	4.5	2.25		
	Triangle Portion	Cum	1	2.5	0.1	4.5	1.12		
	coping concrete arround building	Cum							
	Outside Building	Cum	1	32	27	0.2	172.80		
		Cum	1	19	6.1	0.2	23.18		
		Cum	1	10	3	0.2	6.00		
		Cum	1	20	11	0.2	44.00		
		Cum	1	16	5	0.2	16.00		
			1	20	7	0.2	28.00		
	in front of building outside	Cum	1	46	1.5	0.2	13.80		
	Deduction	Cum							
	tree pit	Cum	1	12.56		0.2	-2.51		
				(3.14*4*4)/4					
	Electric Yard	Cum	1	4.25	5.2	0.2	-4.42		
	man Holes	Cum	12	0.6	0.6	0.2	-0.86		
	Sump Cover	Cum	2	0.6	0.6	0.2	-0.14		
	steps	Cum	1	0.95	2	0.2	-0.38		
		Cum	2	1.9	1.5	0.2	-1.14		
				Total Oty			**497.22**		
				Oty Limited to			**491.21**		
				Qty upto 125%			**381.71**	**7357.00**	**2808240.47**
				Qty Above 125%			**109.50**	**6261.90**	**685678.05**

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
8	Pg No.147 Item No.19.60 KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(which includes cost of gravel / murrum, watering charges & compaction by vibratory roller) MORTH Specification No. 305.								
	Filling in Foundation								
	Excavated earth	Cum		From SL no 1			1168.61		
	PCC	Cum		From SL no 2			-52.55		
	Retaining wall Concer	Cum		From SL no 7			-497.22		
	Total						**618.84**	**357.00**	**220925.88**
9	Pg No 134,Item No17.4 Conveying the excavated earth, debries etc., with all lead and lifts including loading and unloading charges etc., complete as per the direction of the Engineer-in-charge.								
	EARTH	Cum		From SL no 1			1168.61		
	Total						**1168.61**	**236.00**	**275791.96**
10	Providing TMT Steel Reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.TMT Bars Fe 500 Specification No.4.6.3. item No.4.46.2 page no.17								
	Retaining Wall	cum		Concrete quantity			**497.22**		
		kg		91.62Kg/Cum of Concrete			**45555.30**		
		tonne					**45.56**		
				Qty upto 125%			**45.56**	**71673.00**	**3265084.759**
11	KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 page no 25 item no5.27.2								
	Compound Wall								
	EasternSide	Sqm	1	46		1.55	71.3		
	WesternSide	Sqm	1	50.9		1.55	78.89		
	southernside	Sqm	1	19.5		1.55	30.22		
	Northen side	Sqm	1	31.1		1.55	48.2		
	Deduction								
	Gate	Sqm	1	3.5		1.55	-5.42		
		Sqm	1	4.2		1.55	-6.51		
							216.68	**983.00**	**212996.44**
12	KSRB15-3.8 : Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners. wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications Pg No. 114,Item No.15.16								
	External Plastering								
	Compound Wall								
	EasternSide	Sqm	2	46		1.55	142.6		
	WesternSide	Sqm	2	50.9		1.55	157.79		
	southernside	Sqm	2	19.5		1.55	60.45		
	Northen side	Sqm	2	31.1		1.55	96.41		
	Deduction								
	Gate	Sqm	2	3.5		1.55	-10.85		
		Sqm	2	4.2		1.55	-13.02		
	Total						**433.38**	**261.00**	**113112.18**

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
13	providing applying two coats of wall putty to inside plastered walls and ceiling using white cement putty . Scrapping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of alll mateerial cost of labour and scaffolding etc. ,complete as per specification. Pg No.126 Item No.15.106								
		Item not Excuted							
14	Providing textured paint of approved quality, colour and shade to wall surface after cleaning and rubbing the wall suface with wire brush of medium size emery stone to remove all the loosely adhering particales Pg No 125,Item No15.105								
	Compound Wall								
	EasternSide	Sqm	2	46		1.55	142.6		
	WesternSide	Sqm	2	50.9		1.55	157.79		
	southernside	Sqm	2	19.5		1.55	60.45		
	Northen side	Sqm	2	31.1		1.55	96.41		
	Deduction								
	Gate	Sqm	2	3.5		1.55	-10.85		
		Sqm	2	4.2		1.55	-13.02		
	Total						**433.38**	**412.00**	**178552.56**
15	Fabrication Providing and erecting in position Hot dip Galvanised Gateusing 72X72X48mm Sq GI Pipe frame with top pipe bending in heavy duty hydralic press with sand packing hot bending to form double arch as per drawing profile, 20mm hot dip Galvanised Sq. Road forverticles at 150mm c/c as Shown in the Drawing including providing hot dip Galvanised forgedornamental design in between Sq.rods and heads at Top, middle and bottom , intermediate supports of 75X12mm and 50X6mm aech bentto hot dip Galvanised Flats.The work is inclusiveof throughing GI,flat Sq. rods, placing,weldingall the joins including grinding ,finishing metalpatty, painting two coats enamel painting the rate is inclusive of allmaterials like GI Sq Pipe,GI forged designs etc., heavy duty hingers are made out of 75mm Solid Sqq. block assembled with 20mm dia bearing in three places for each flop using hoist pulley cranes with all lead andlift , loading, Transportation, unloading Scaffolding charges and all other incidental charges for successful completion of the work as peer Directions of the Engineer-in-charge opf the work(DATA RATE copy is enclosed)								
		Sqm	1	3.50		1.66	5.81		
		Sqm	1	4.20		3.5	14.70		
	Total						**20.51**	**13685.00**	**280679.35**
EIRL-1	Providing and fixing Stainless steel staircase raling as per Chief Architect Drawing No. 11520/ HRSC with hand rail 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges, etc., c complete as per specifications and directions of the Engineer in charge								
		Sqm	1	13.70		1	13.70		
	Total						**13.70**	**6487.07**	**88872.859**
								Total Amount	**10824190.26**

Assistant Engineer
BBMP

Assistant Executive Engineer
BBMP

Executive Engineer
BBMP

01/06/20

Technical Sanction
Accorded For KS10824190.26
Head of A/C PO541
CER NO :..... Dt:..

[TA] CE (YNK)